

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A system~~System~~ for controlling a data network, comprising:

means for receiving quality of service requests that each correspond to a~~corresponding to~~
respective microflow~~microflows of packets; and~~

control means for controlling elements of said data network,~~which system is~~
~~characterized in that it comprises; and~~

means for correlating the quality of service requests;~~and~~

wherein the control means effect~~effects~~ said control of said elements of said data network
only once for the quality of service requests of each set of microflows defined in that the quality
of service request of each microflow is only for all the correlated with the quality of service
request~~requests~~ of every other microflow in said set.
2. (currently amended): A control~~Control~~ system according to claim 1, ~~in~~
~~which~~wherein the correlation is effected by comparing the 5-tuples of said microflows.
3. (currently amended): A control~~Control~~ system according to claim 2, wherein the correlation is effected by comparing the addresses of the sender and the addressee.

4. (currently amended): A control~~Control~~ system according to claim 1, wherein said ~~reservation-control~~ means comprises~~form~~ a software module remote from said correlation means and communicating therewith by means of a communication protocol.

5. (currently amended): A control~~Control~~ system according to ~~any preceding claim~~ 1, wherein said network elements may be monitored atomically.

6. (currently amended): A control~~Control~~ system according to claim 1, wherein the control means are adapted to perform admission control prior to controlling said network elements.

7. (currently amended): A control~~Control~~ system according to claim 1, wherein the control means are such that said correlated reservation requests share the same bandwidth.

8. (currently amended): A control~~Control~~ system according to claim 1, wherein the correlation means are adapted to anticipate microflows~~flows~~ of return packets and to consider them to determine the correlated resource reservation requests.

9. (currently amended): A control ~~Control-device-(CD)~~ of a data network (~~N~~), comprising:

means for receiving quality of service requests that each correspond ~~corresponding to a~~ respective microflows~~microflow;~~ and

means for communicating with an admission controller (~~AC~~) for reserving the required resources within said data network,

~~characterized in that it~~ wherein the control device comprises means for correlating the quality of service requests; and

the control device transmits a single resource reservation request to the admission controller for the quality of service requests of each set of microflows defined in that the quality of service request of each microflow for all the is correlated with the quality of service ~~request~~ request of every other microflow in said set.

10. (currently amended): A control ~~Control~~ device according to claim 9 wherein the correlation is effected by comparing the 5-tuples of said microflows.

11. (currently amended): A control ~~Control~~ device according to claim 10, wherein the correlation is effected by comparing the addresses of the sender and the addressee.

12. (currently amended): A control ~~Control~~ device according to claim 9, wherein said correlated quality of service requests may share the same bandwidth.

13. (currently amended): A control ~~Control~~ device according to claim 9, wherein the correlation means are adapted to anticipate return microflows and to consider them for determining the correlated quality of service requests.

14. (currently amended): ~~An admission~~Admission controller associated with a domain of a data network ~~(N)~~, comprising:

means for receiving a single resource reservation request ~~corresponding for the quality of service requests of each set of microflows defined in that the quality of service requests of each microflow is to correlated with the quality of service request~~requests of every other microflow in said set and control means for controlling elements of said domain, ~~characterized in that it wherein the admission controller further comprises means for communicating said single resource reservation request for each set of microflows to the admission controller associated with a second domain of said data network.~~